



Solar Keymark database Status report 2019

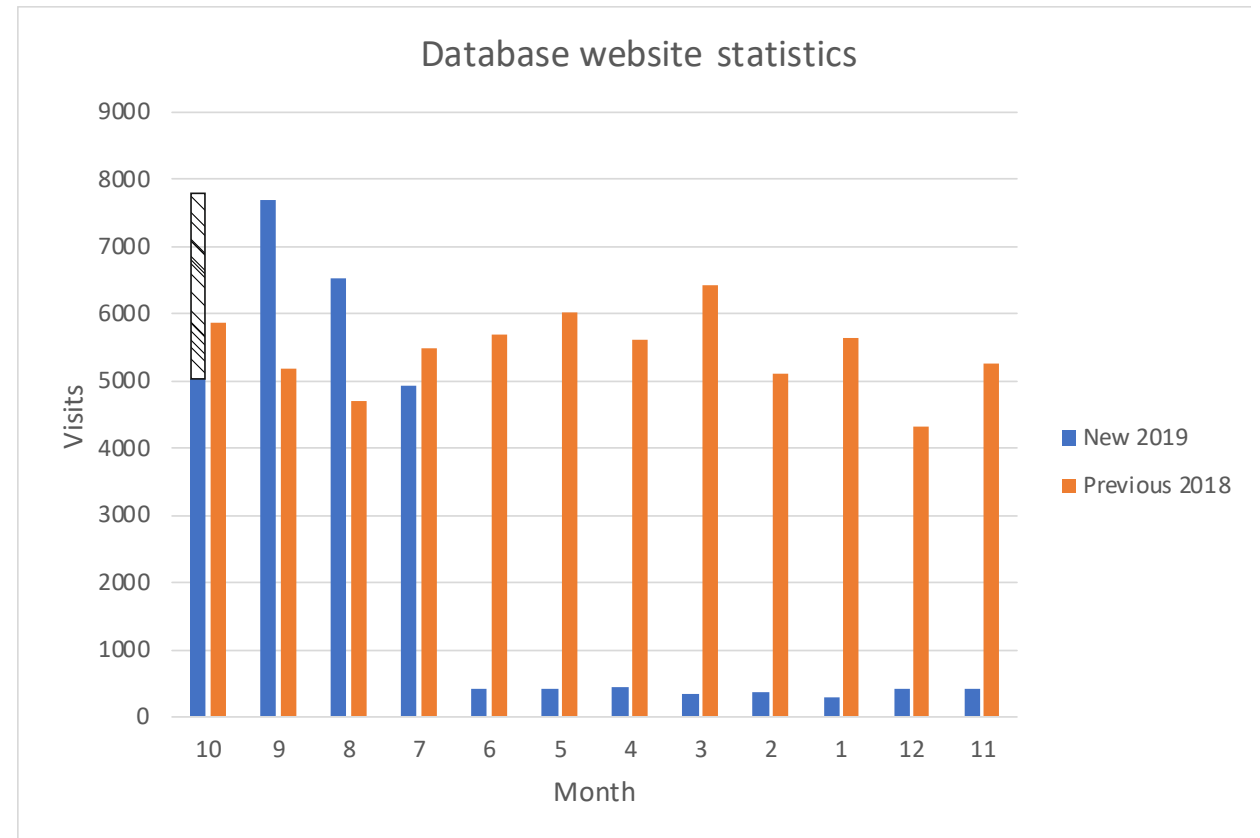
vAConsult

G. van Amerongen

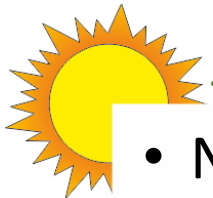
Website statistics – visits -



- Start new website: July 2019
- Smooth transition
 - Number of visits new database comparable (or higher)
 - Visits to entrance page
- Comments received:
 - Processed up to end of July
- New comments:
 - Country codes: done
 - Search for sub-types: done

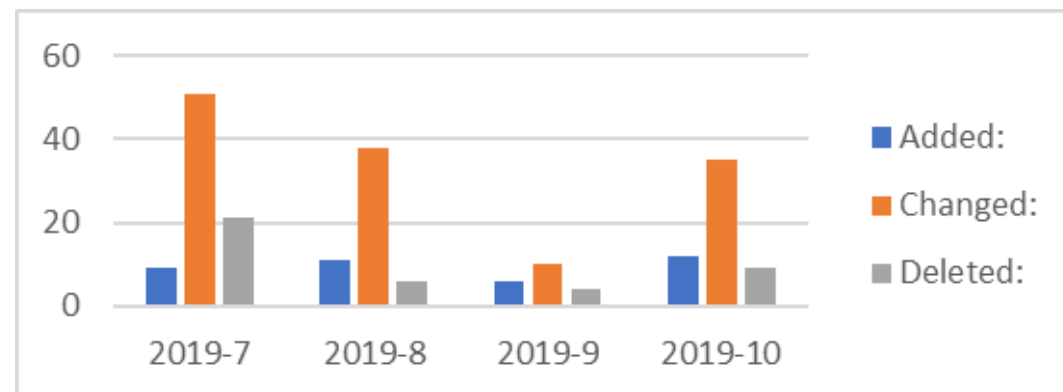


Website statistics – licenses -

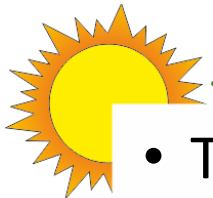


- New and deleted licenses are balanced in the last 4 months
- High number of 'changed' is explained by continuous improvements of the data quality

Entry mutations					
Year-month:	2019-6	2019-7	2019-8	2019-9	2019-10
Added:	2	9	11	6	12
Changed:	1221	51	38	10	35
Deleted:	14	21	6	4	9



Website statistics – data and quality -



- The Excel version of datasheets are needed for a high quality import of data
 - 24% are still missing
 - Only pdf available through website
- Not all data is perfect:
 - Many (older): No annual performance
 - Partial data, if datasheet format is altered
 - ...

Current license count					
	All	Collector	Tank	System	Controller
Licenses:	1409	1167	6	230	6
Sub-types:	4556	3281	30	1239	6
Missing	340	286	0	54	0
Excel:	24%	25%	0%	23%	0%

Database – public interface -



extensive search function

Current list of licenses

Download datasheet



SOLAR KEYMARK



Search

Collector	System	Tank	Control
« < 1 > »			
1167 Licenses found			
License holder company	Brand	License number	
GREENoneTEC Solarindustrie GmbH	FK8209 TSA/FK8259 TSA	011-7S2583F	
Kohlbacher GmbH	Sonnenfänger KU waagerecht/senkrecht	011-7S2661F	
Eternit Werke Ludwig Hatschek AG	SolaMAX-GS	011-7S1566F	
Riello S.p.A	TSOL 25 SOTTOVUOTO	ICIM-CLS-000148	

[Active license summary](#)

Click row for details

Select one of the sub-types

Select a table

Download datasheet



SOLAR KEYMARK

Collector	System	Tank	Control
Back			Datasheet
License number:	011-7S481F		
License holder:	Wagner Solar GmbH		
Collector name:	EURO L20 AR		
License info	Application	Test results	Derived results
			Regulatory

ErP:	CDR 811/2013, CDR812/2013, CDR814/2013		
A_{sol} = 2.61	m ²	Collector reference area	
η_{col} = 61	%	Collector efficiency	
η_0 = 0.763	-	Zero loss efficiency	
a_1 = 3.25	W/(K.m ²)	First order coefficient	
a_2 = 0.013	W/(K ² .m ²)	Second order coefficient	
IAM = 0.92	-	Incidence angle modifier	

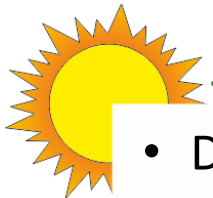
Standard applied: ISO 9806:2017

Special (pdf) reports

[Declaration](#)


EN 15316-4-3

Database – current list of licenses -

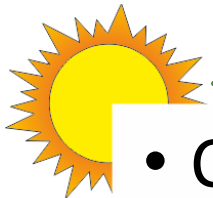


- Daily update
- Sorted to update date
- Links to license holder and datasheet
- Comparable with summary of previous database

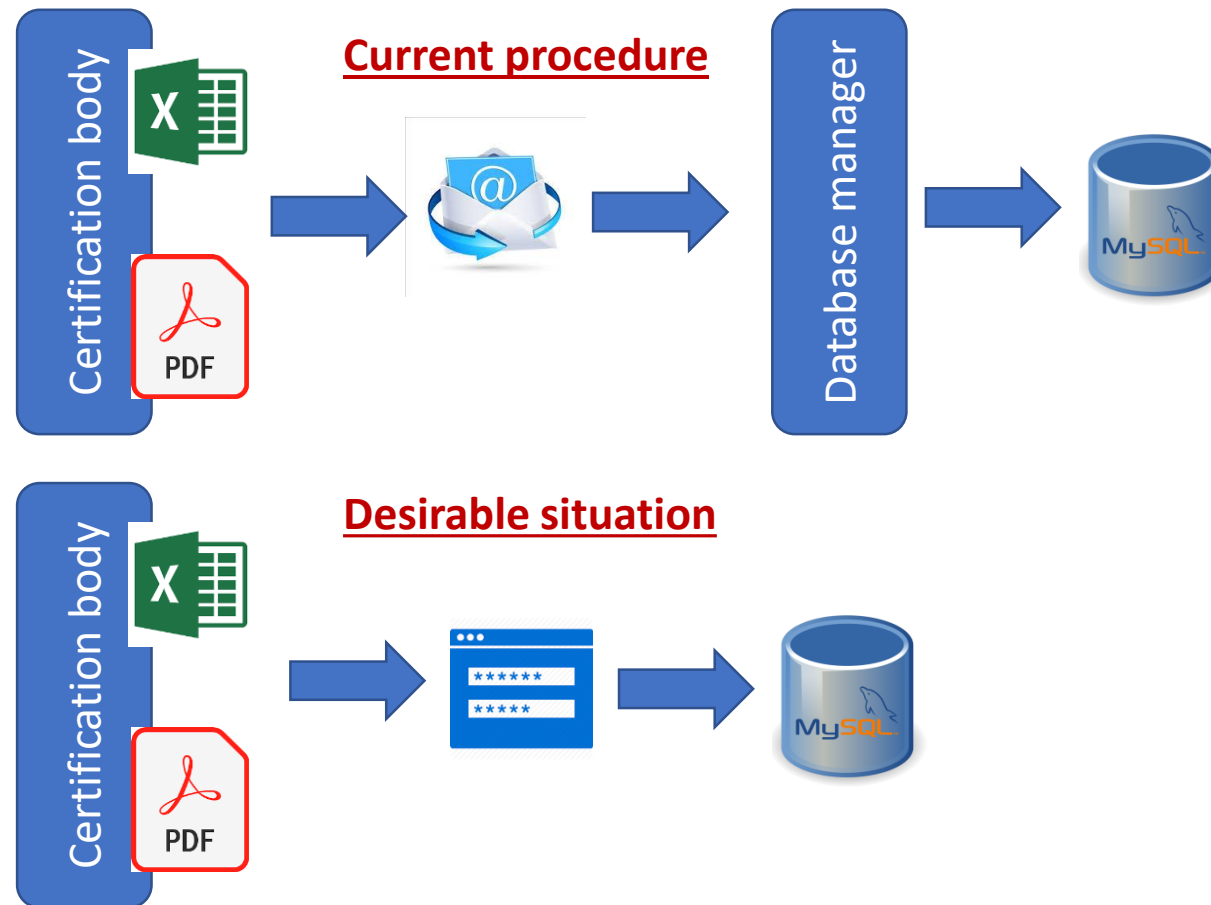
- Latest version 20.10.2019:
 - All sub-types included
 - Update date added (and sorted)

 Solar Keymark CEN Keymark scheme								
Report: active Solar Keymark licenses			Sub-scheme: collector		Sub-scheme: Collectors		Dated: 21.10.2019	
Company	Web	Family member names	License number	Data sheet	Certification body	Country	No	Updated
GREENoneTEC Solarindustrie GmbH	Link	FK8209 4H TSA;FK8259 3H TSA;FK8259N 4H TSA;	011-7S2583F	Link	DIN CERTCO	AT	3	18.10.2019
Kohlbacher GmbH	Link	Sonnenfänger KU senkrecht;Sonnenfänger KU waagerecht;	011-7S2661F	Link	DIN CERTCO	AT	2	18.10.2019
Eternit Werke Ludwig Hatschek AG	Link	SolaMAX-GS-GS 4,2 m2;SolaMAX GS 16,7 m2;	011-7S1566F	Link	DIN CERTCO	AT	2	18.10.2019
Riello S.p.A	Link	TSOL 25 SOTTOVUOTO;TSOL 25 SOTTOVUOTO;	ICIM-CLS-000148	Link	ICIM	IT	2	18.10.2019
GREENoneTEC Solarindustrie GmbH	Link	FK 8209L 2H;FK 8209N 2H;FK 8209N 4H;FK 8259L	011-7S2582F	Link	DIN CERTCO	AT	6	18.10.2019

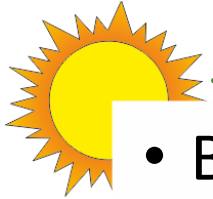
Database update procedure



- Current procedure:
 - CB Excel & pdf email to manager
 - Uploaded into database
 - Seems to work smoothly now
- Excel is not always available
 - Limited upload possible
 - PLEASE let's supply both!
- When both are available, CB's can upload the data themselves



Database – issues -



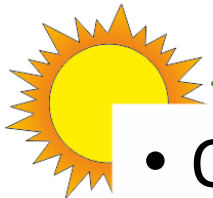
- Brand name
 - Sometimes trade name, supplier name, or nothing
- Currently:
 - Web list: either brand name or list of sub types.
 - Summary pdf: always list of sub types.
- License number:
 - Currently each license is identified by its license number
 - xxx-01 if another license than xxx-02
 - Do not use country specific characters

Action required

- Datasheet issues:
 - None prescribed input fields give ambiguous data in database
 - E.g. country: always english, two character code,..
 - User introduced changes in format gives bad upload results
 - Work needs to be done on format
- Older licenses
 - Try to retrieve the Excel files to reduce the number of entries without detailed data.

Action required

Additional services – reports (SCF7-LabelDB) -



- Offer reports in the framework of ErP and EPBD
 - Collector & tank: done and available
 - Combi collector and tank: work in progress
 - **Limitation: only 6 tank licenses (30 tanks)**
 - Systems: work in progress
 - **Not many datasheets with ErP data available.**

Solar Keymark
CEN Keymark scheme

Report: 21.10.2019

Solar Keymark
CEN Keymark scheme

Report: 21.10.2019

Sub-scheme: Collector
License number: 011-7S481F
License holder: Wagner Solar GmbH
Collector name: EURO L20 AR
Standard applied: ISO 9806:2017

Product specification statement in the framework of the standard: CEN-EN 15316-4-3, method 2 and 3

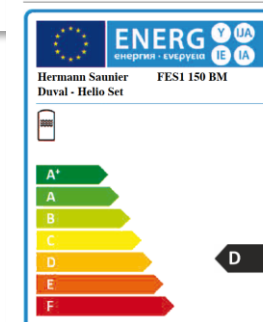
$A_{sol,mod}$	= 2.61	m ²	Reference area of one collector module
η_o	= 0.763	-	Peak collector efficiency
a_1	= 3.250	W/(m ² .K)	Heat loss coefficient
a_2	= 0.013	W/(m ² .K ²)	Temperature dependent heat loss coefficient
IAM	= 0.92	-	Incidence angle modifier
\dot{m}_{col}	= 0.037	kg/(s.m ²)	Solar loop mass flowrate

the European regulations: CDR 811/2013, CDR

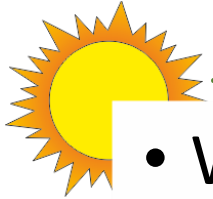
Collector reference area
Collector efficiency
Heat loss coefficient
Temperature dependent heat loss coefficient
Incidence angle modifier
Solar loop mass flowrate

SOLAR KEYMARK
CEN Keymark scheme

21.10.2019



Additional services: - third party access -



- What is this?

- Give others automated access to the data
 - Government surveillance
 - Solar thermal software
 - Product databases

- The database is prepared for this.

- Proposal:

Action required

- Case by case decision by:
 - SKN representation (chairperson, SK manager, secretariat and KMO)
- Reports per SKN meeting
 - Decisions taken and motivations
- Requests submitted to SK secretariat
- DBF manager will draft document with technical description